



DATABASE	VALID BIT	NEXT FREE ADDRESS
DB1	V1	NFA 1
DB2	V2	NFA 2
DB3	V3	NFA 3
DB4	V4	NFA 4
DB5	V5	NFA 5
DB6	V6	NFA 6
DB7	V7	NFA 7
DB8	V8	NFA 8
DB9	V9	NFA 9
DB10	V10	NFA 10
DB11	V11	NFA 11
DB12	V12	NFA 12
DB13	V13	NFA 13
DB14	V14	NFA 14
DB15	V15	NFA 15
DB16	V16	NFA 16

NFA
TABLE

FIG. 3D

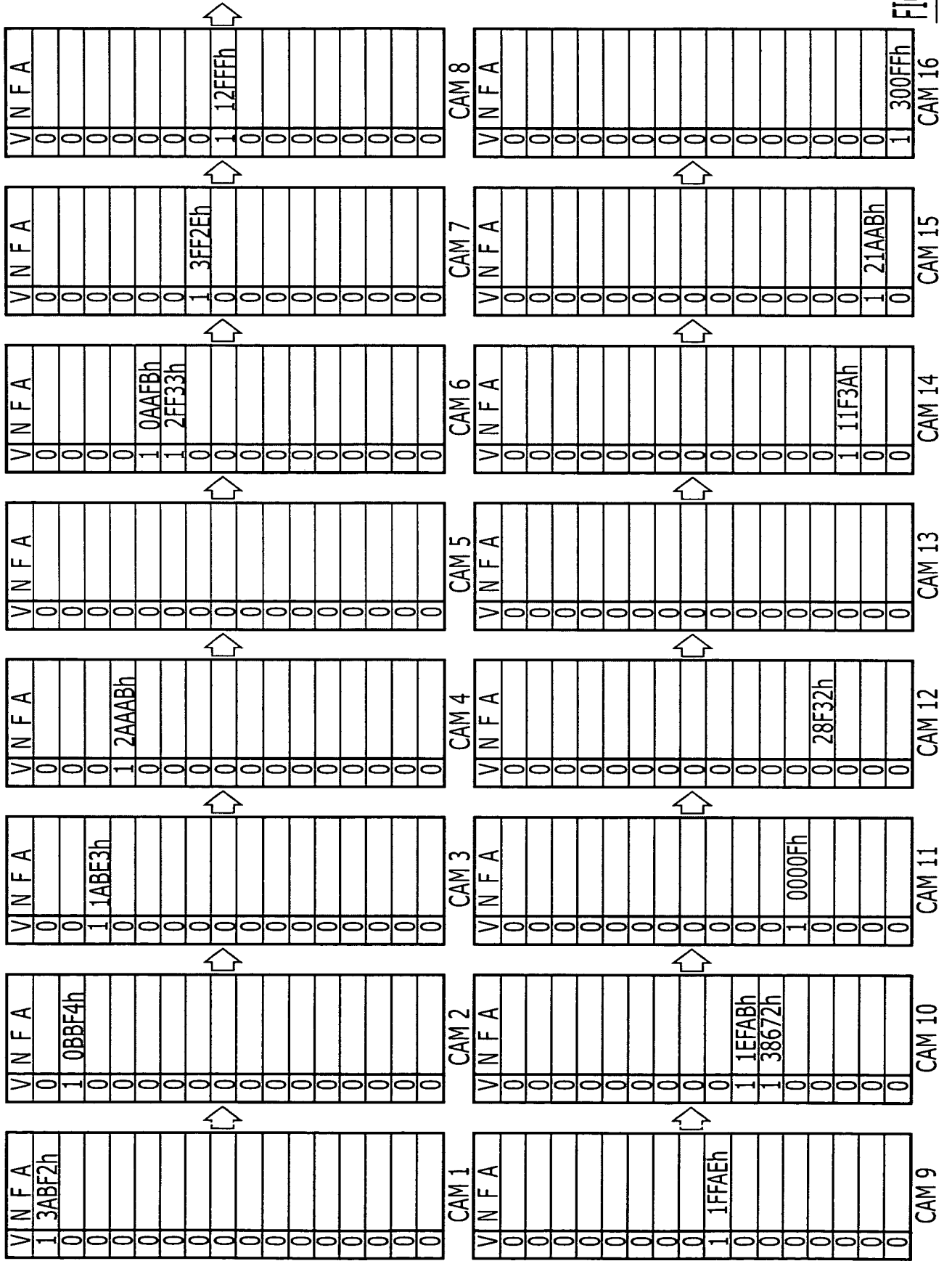


FIG. 4A

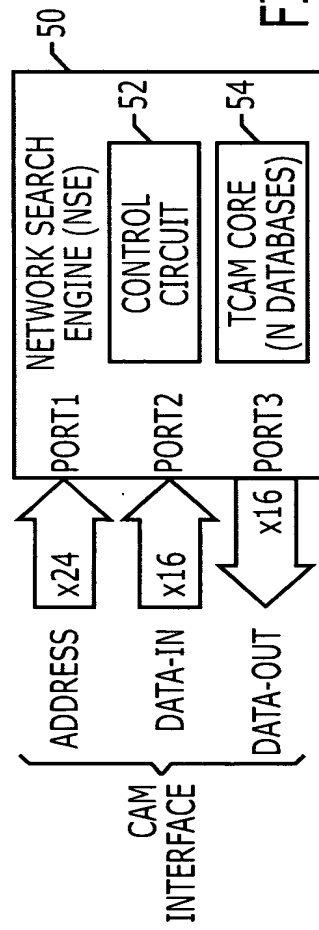


FIG. 5

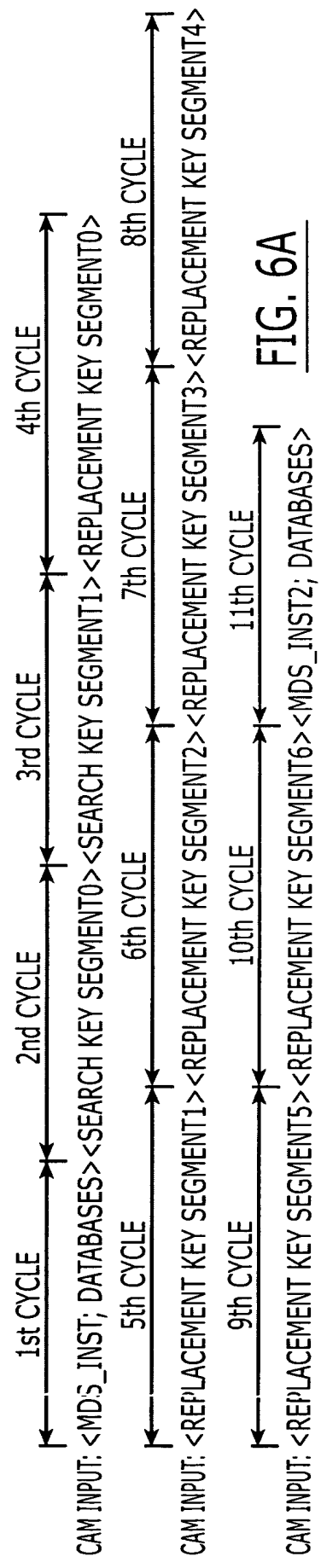


FIG. 6A

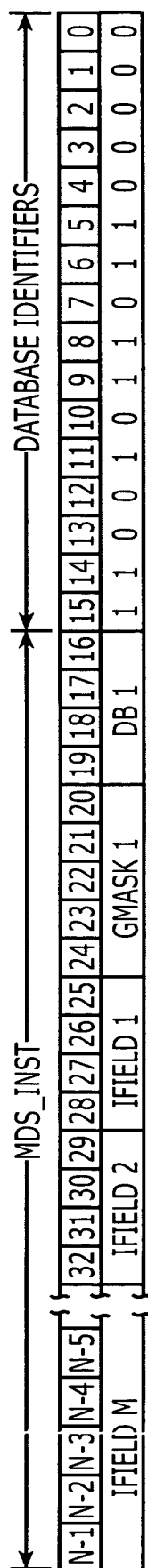


FIG. 6B

SEARCH NO.	SEARCH KEY	GLOBAL MASK +	SEARCH WORD	DATABASE
1	<KEY SEGMENT0>	GMASK1	SEARCH WORD 1	3
2	<REPLACEMENT SEGMENT0>	GMASK2	SEARCH WORD 2	5
3	<REPLACEMENT SEGMENT1>	GMASK3	SEARCH WORD 3	6
4	<REPLACEMENT SEGMENT2>	GMASK4	SEARCH WORD 4	8
5	<REPLACEMENT SEGMENT3>	GMASK5	SEARCH WORD 5	9
6	<REPLACEMENT SEGMENT4>	GMASK6	SEARCH WORD 6	11
7	<REPLACEMENT SEGMENT5>	GMASK7	SEARCH WORD 7	14
8	<REPLACEMENT SEGMENT6>	GMASK8	SEARCH WORD 8	15

FIG. 6C

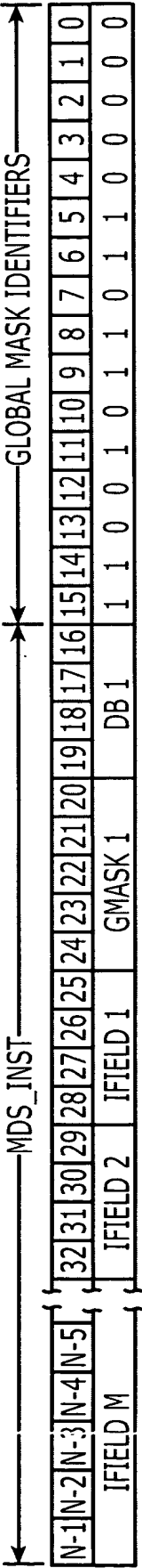


FIG. 6D

SEARCH NO.	SEARCH KEY	GLOBAL MASK	SEARCH WORD
1	<SEARCH KEY1>	+ GMASK1	SEARCH WORD 1
2	<SEARCH KEY2>	+ GMASK5	SEARCH WORD 2
3	<SEARCH KEY3>	+ GMASK6	SEARCH WORD 3
4	<SEARCH KEY4>	+ GMASK8	SEARCH WORD 4
5	<SEARCH KEY5>	+ GMASK9	SEARCH WORD 5
6	<SEARCH KEY6>	+ GMASK11	SEARCH WORD 6
7	<SEARCH KEY7>	+ GMASK14	SEARCH WORD 7
8	<SEARCH KEY8>	+ GMASK15	SEARCH WORD 8

FIG. 6E